REMARKS

This Letter essentially restates the Articles 19 Amendments as it would apply to the English language specification. The Articles 19 Amendments have been applied to and original claims 1, 9, and 11. Original claims 4, 6, 7, 13 and 15 were cancelled. To show the changes made to the claims, copies of (1) Original Claims "A", and (2) Article 19 Amendment "B" are enclosed for convenience of understanding. Accordingly, claims 1-3, 5, 8-12, 14 and 16 are presented for examination on the merits.

Dated: May 12, 2006

Respectfully submitte

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IAP9 Rec'd PCT/PTO 12 MAY 2006

CLAIMS

[1] A liquid crystal display comprising two substrates on which alignment films for orienting liquid crystal in a predetermined direction are formed, the alignment films facing each other across a predetermined gap by a sealing material to bond the pair of substrates between which a liquid crystal layer is sandwiched, wherein

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the sealing material contains a filler having a mean particle size of less than 0.5 μm ,

- the liquid crystal material used in the liquid crystal layer has a refractive index anisotropy at room temperature of 0.16 or more, and a cell gap is 3 µm or less.
 - [2] A liquid crystal display as set forth in claim 1, wherein the liquid crystal material used in the liquid crystal layer has a refractive index anisotropy at room temperature of 0.18 or more.
 - [3] A liquid crystal display as set forth in claim 1, wherein the content of the filler contained in the sealing material is within a range of 15 to 40 wt%.
- 20 [4] A liquid crystal display as set forth in claim 1, wherein a maximum particle size of the filler contained in the sealing material is 1.5 μm or less.
 - [5] A liquid crystal display as set forth in claim 1, wherein a specific surface area of the filler contained in the sealing material is $30~\text{m}^2/\text{g}$ or less.

- [6] A liquid crystal display as set forth in claim 1, wherein there is an alignment film under the seal of at least one substrate.
- [7] A liquid crystal display as set forth in claim 1, 5 wherein the alignment film material is an inorganic alignment film.
 - [8] A liquid crystal display as set forth in claim 3, wherein the alignment film material is an inorganic alignment film.
- [9] A liquid crystal display as set forth in claim 4, wherein the alignment film material is an inorganic alignment film.
 - [10] A liquid crystal display as set forth in claim 5, wherein the alignment film material is an inorganic alignment film.
 - [11] A projection type display apparatus comprising: a light source,

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- a condensing optical system for guiding the light emitted from the light source to a liquid crystal display device, and
- a projection optical system for enlarging and projecting light modulated by the liquid crystal display device, wherein

the liquid crystal display device has

two substrates on which alignment films for orienting

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liquid crystal in a predetermined direction are formed, the alignment films facing each other across a predetermined gap by a sealing material to bond the pair of substrates between which a liquid crystal layer is sandwiched,

5 the sealing material contains a filler having a mean particle size of less than 0.5 μm ,

the liquid crystal material used in the liquid crystal layer has a refractive index anisotropy at room temperature of 0.16 or more, and a cell gap is 3 µm or less.

- [12] A projection type display apparatus as set forth in claim 11, wherein the content of the filler contained in the sealing material is within a range of 15 to 40 wt%.
 - [13] A projection type display apparatus as set forth in claim 11, wherein a maximum particle size of the filler contained in the sealing material is 1.5 μ m or less.
 - [14] A projection type display apparatus as set forth in claim 11, wherein a specific surface area of the filler contained in the sealing material is $30 \text{ m}^2/\text{g}$ or less.
- [15] A projection type display apparatus as set forth in 20 claim 11, wherein there is an alignment film under the seal of at least one substrate.
 - [16] A projection type display apparatus as set forth in claim 11, wherein the alignment film material is an inorganic alignment film.

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PATENT COOPERATION TREATY

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PCT



NOTIFICATION CONCERNING THE FILING OF AMENDMENTS OF THE CLAIMS

(PCT Administrative Instructions, Section 417)

From the INTERNATIONAL BUREAU

To.

SATOH, Takahisa Sohshin International Patent Office 4-2, Yanagibashi 2-chome Taito-ku, Tokyo 111-0052 Japan

Date of mailing

(day/month/year)

11 May 2005 (11.05.2005)

Applicant's or agent's file reference

04-8102-SNY

International application No.

PCT/JP2004/016995

IMPORTANT NOTIFICATION

International filing date

(day/month/year)

16 November 2004 (16.11.2004)

Applicant

SONY CORPORATION et al

1. The applicant is hereby notified that amendments to the claims under Article 19 were received by the International Bureau on:

27 April 2005 (27.04.2005)

2. This date is within the time limit under Rule 46.1.

Consequently, the international publication of the international application will contain the amended claims according to Rule 48.2(f), (h) and (i).

3. The applicant is reminded that the international application (description, claims and drawings) may be amended during the international preliminary examination under Chapter II, according to Article 34, and in any case, before each of the designated Offices, according to Article 28 and Rule 52, or before each of the elected Offices, according to Article 41 and Rule 78.



The International Bureau of WiPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 338.70.10

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IAP9 Rec'd PCT/FTO 12 MAY 2006

CLAIMS

[1] (Amended) A liquid crystal display comprising two substrates on which alignment films for orienting liquid crystal in a predetermined direction are formed, the alignment films facing each other across a predetermined gap by a sealing material to bond the pair of substrates between which a liquid crystal layer is sandwiched, wherein

the sealing material contains a filler having a mean particle size of less than 0.5 μm and a maximum particle size of 1.5 μm or less,

the liquid crystal material used in the liquid crystal layer has a refractive index anisotropy at room temperature of 0.16 or more, and a cell gap is 3 μm or less.

- [2] A liquid crystal display as set forth in claim 1,

 wherein the liquid crystal material used in the liquid

 crystal layer has a refractive index anisotropy at room

 temperature of 0.18 or more.
 - [3] A liquid crystal display as set forth in claim 1, wherein the content of the filler contained in the sealing material is within a range of 15 to 40 wt%.
 - [4] (Deleted)

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- [5] A liquid crystal display as set forth in claim 1, wherein a specific surface area of the filler contained in the sealing material is $30~\text{m}^2/\text{g}$ or less.
- 25 [6] (Deleted)

[7] (Deleted)

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- [8] A liquid crystal display as set forth in claim 3, wherein the alignment film material is an inorganic alignment film.
- [9] (Amended) A liquid crystal display as set forth in claim 1, wherein the alignment film material is an inorganic alignment film.
 - [10] A liquid crystal display as set forth in claim 5, wherein the alignment film material is an inorganic alignment film.
 - [11] (Amended) A projection type display apparatus comprising:
 - a light source,
- a condensing optical system for guiding the light

 15 emitted from the light source to a liquid crystal display device, and
 - a projection optical system for enlarging and projecting light modulated by the liquid crystal display device, wherein
- 20 the liquid crystal display device has

two substrates on which alignment films for orienting liquid crystal in a predetermined direction are formed, the alignment films facing each other across a predetermined gap by a sealing material to bond the pair of substrates

25 between which a liquid crystal layer is sandwiched,

the sealing material contains a filler having a mean particle size of less than 0.5 μm and a maximum particle size of 1.5 μm or less,

the liquid crystal material used in the liquid crystal layer has a refractive index anisotropy at room temperature of 0.16 or more, and a cell gap is 3 µm or less.

[12] A projection type display apparatus as set forth in claim 11, wherein the content of the filler contained in the sealing material is within a range of 15 to 40 wt%.

10 [13] (Deleted)

- [14] A projection type display apparatus as set forth in claim 11, wherein a specific surface area of the filler contained in the sealing material is $30 \text{ m}^2/\text{g}$ or less. [15] (Deleted)
- [16] A projection type display apparatus as set forth in claim 11, wherein the alignment film material is an inorganic alignment film.

EXPLANATION BASED ON ARTICLE 19(1) OF TREATY

We reevaluated the direction of obtaining a right based on the cited references presented and thereby amended claims 1, 9, and 11 and deleted claims 4, 6, 7, 13, and 15 in the claims described in the basic application.